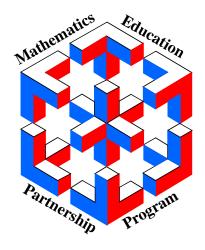
Mathematics & NSA: A Long Term Partnership



2003

Summer Institute

for

Middle School

Mathematics Teachers

Middle School mathematics and science teachers are invited to apply to attend the 2003 National Security Agency (NSA) Summer Institute:

- Held June 23-27, 2003

 (we will possibly hold this session June 25 July 1 if an excessive number of snow days cause the school year to be extended)
- Hosted by Anne Arundel County (Maryland) Public Schools

Successful applicants:

- Learn and apply the latest techniques for mathematics classrooms
- Co-author learning units for publication and distribution nationwide
- Receive a stipend of \$500
- Receive free manipulatives and other valuable educational supplies
- May receive in-service credits
- Receive a continental breakfast and lunch each day

Participants can expect to work hard and have fun in a professional, energetic, fast-paced environment. The enclosed application must be postmarked no later than 11 April, 2003.

WHAT IS THE SUMMER INSTITUTE FOR MATHEMATICS TEACHERS?

In partnership with Anne Arundel County Public Schools, the National Security Agency's Mathematics Education Partnership Program sponsors Summer Institutes for Mathematics Teachers (SIMT). These Institutes provide teachers an intensive five-day opportunity to learn and apply the latest techniques for mathematics classrooms using a wide variety of methods and technology.

During the week-long institute, participants will attend two of four strands:

- Algebraic Reasoning topics will include variables, operations, and functions with problem solving in small groups.
- Geometric Reasoning- emphasis will be on conceptual understanding, multiple representations, mathematical modeling, and problem solving.
- Reasoning about Probability topics will include probability models, statistical graphing, and applications of probability and statistics.
- Proportional Reasoning recognize quantities that are related proportionally, using tables, numbers, graphs, and equations to investigate these quantities and their relationships.

Each of these strands is in accordance with the NCTM Standards and will be interwoven with the use of the TI-73 graphing calculator. In addition, participants will attend special lectures by NSA mathematicians on topics such as cryptanalysis, mathematical thinking, and coding theory.

Participants will be part of a team that will develop a learning unit designed to incorporate the Maryland State Core Learning Goals and the NCTM Standards. NSA maintains ownership of the learning units and publishes and distributes them free of charge upon request from educational institutions or teachers. They may also be available via the Internet.

Participants will be required to attend two follow-up sessions, one in the fall and one in the spring (probably Dec. 4, 2003 and Mar. 3, 2004). During these sessions, they make final changes to the learning units, hear guest speakers, and present the learning units to the Institute.

Participants will receive a \$500.00 stipend if they complete the entire 40-hour program during the summer and provide a learning unit suitable for review by representatives of the Maryland Council of Teachers of Mathematics. After attending both follow-up sessions, participants may receive in-service credits depending on the requirements of their state (MSDE has approved 3 in-service credits).

HOW CAN YOU BE A PART OF THE 2003 SIMT?

Middle School mathematics and science teachers are invited to apply. We are looking for both experienced and novice teachers from both public and private nonprofit schools. Most importantly, we are looking for teachers who are excited about teaching, who work well with others, and who like to participate!

THE NEXT STEP

The enclosed application must be completed, signed by both you and your principal, and returned no later than 11 April 2003. Neatness and thoroughness count! Incomplete applications will not be considered. You may attach one of your lesson plans or units as an example of your writing and planning skills.

Application 2003 Middle School Summer Institute for Mathematics Teachers

PLEASE TYPE OR PRINT CLEARLY

1. Name		
last	first	middle initial
2. School where employed		
name of school	street address	
Public Private	city/state/zip code	
county where school is located	(area code) telephone number	e-mail address
3. Residence		
(area code) telephone number	street address	
	city/state/zip code	
4. Male/FemaleSocial Security	Number	
5. US Citizen? YesNo_	Date of Birth	
6. Ethnicity African American Asian/Pacific Islander	White Hispanic I Other (Specify)	
7. Number of years middle school t	eaching experience	
8. Highest degree earned	area of specialization	
9. Course(s) taught 2002-2003 scho	ol year	
10. Have you ever attended a SIMT	Γ? If yes, when?	
11. Please indicate your preference first choice, "2" by your second choice. Algebraic R Geometric F Reasoning a Proportional	ce, "3" by your third choice, and "4" easoning Reasoning bout Probability	

12.	Continuing Education	On a separate piece of j	paper, indicate:		
	Name of program	Host organization	Length	Date	Your role

- 13. Reasons for Participating On a separate sheet of paper, state your plans and goals for enhancing middle school mathematics or science education and your reasons for participating in this institute.
- 14. **Support of Administration** Your school principal must sign the following for you to be considered for the Institute:

I recommend this applicant for participation in the Institute. After completion of the Institute, I will support the applicant's efforts to convey the results of the institute to other teachers at my school *and I will support the applicant's attendance at the two follow-up sessions*. I understand that in order to be eligible for MSDE credits, the applicant must attend these follow-up sessions and that NSA will provide no reimbursements for substitutes. (Teachers from states outside the mid-Atlantic region are not required to attend the follow-up sessions if they are not interested in receiving MSDE credit). I also consent to the inclusion of my school's name and phone number on this applicant's learning units, which will be published and distributed by NSA, both in paper copy and on the Internet.

Principal's signature	 	
Principal's name (printed)	 	

15. **Applicant Consent Statement** You must sign the application in order to be considered for the institute.

I consent to NSA's ownership, publication, and distribution, both in paper copy and on the Internet of the learning units I write, to include my name, school name, and school phone number. I also consent to NSA's producing and using photographic or videotape images of me for purposes of including such images in informational packages regarding these institutes.

PRIVACY ACT STATEMENT: Auth: 10 U.S.C. § 2193; SSN: EO 9397. PURPOSE: administer cooperative agreements with area schools. ROUTINE USES: disclosure to (1) agency officials administering the program, (2) school cooperative agreement administrators and (3) teacher participants (contact information only). Disclosure of the information, including Social Security Numbers, is voluntary. Failure to furnish the requested information may result in non-selection, non-participation, or non-payment in the program. Your signature indicates you have read and understand the above.

Applicant's signature

Application must be postmarked by **April 11, 2003.** Send to:

National Security Agency 9800 Savage Road Suite 6274 Ft. Meade, MD 20755-6274 ATTN: Bob Cowles, DE/MEPP, Room 2B6030

Applications can be faxed to the MEPP at 443-479-1193, Attn: Bob Cowles MEPP can be contacted via e-mail at the address rkcowle@nsa.gov